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261. By ALEX. S. CHRISTIE, *U. S. Coast Survey, Washington, D. C.*—A curve of the n th degree rolls upon any curve whatever: to determine the degree and position of the locus of the centers of curvature of all the elements described, at any given instant, by the points of the rolling curve.

262. By PROF. A. B. EVANS, *Lockport, N. Y.*—Prove, x being an integer, that $x(x+1)(x+2)(x+3)(x+4)(x+5)(x+6)$ cannot be the square of a commensurate number.

263. By W. L. MARCY, *Colorado Springs, Col.*—On the 17th of Aug., 1878, at 5^h 20^m A. M., an observation of polaris was taken in Lat. 37°30', Long. 107° W. from Greenwich, with an engineer's transit; from the meridian thus obtained, the Sun's azimuth at 6^h 23^m 53^s, A. M., was 79°10'30'' What was the error of the watch, and of the meridian?

264. By PROF. J. H. KERSHNER, *Mercersburg, Pa.*—It is required to divide a given straight line into three parts such that the triangle formed of them shall have its circumscribing circle a minimum and its inscribed circle a maximum.

265. By GEORGE EASTWOOD, *Saxonville, Mass.*—At age a , a person takes out a life policy of k dollars, for which he agrees to pay an annual premium of p dollars. At age $a+n$ he is not able to make his annual payment and wants to sell, or surrender, his life-policy for full-paid insurance policy. If the n premiums that have been paid be each viewed as the sum of a series of infinitely small annuities, payable at infinitely small intervals of time, within each year, what ought to be the present value of the new policy?

PUBLICATIONS RECEIVED.

Transactions of the Wisconsin Academy of Science, Arts and Letters. Madison, Wisconsin. 1879. 320 pages, 8vo.

The Mathematical Visitor, No. 3. Artemas Martin, A. M., Editor and Publisher. Erie, Pa. 36 pages, 4to. Price, 50 cents.

ERRATA.

On page 63, line 20, for Prof. Johnson, read, Prof. Hendrickson.

“ “ 67, “ 9, insert a period after $\infty + 1$, and for “Le”, read Let.

“ “ 49, “ 4, Vol. III, for 4058, read 4059, and for 4059, read, 4060.

“ “ 23, Vol. IV, insert the factor, $\cos \phi$, in the numerator of the value of Δ .